40 Paper Manh 10 In inquiry Sate the medical virtues of the Sal Cinchenas and Sulphus Primmer In the cure of Intermittant And Remittent From Inbuitted as an Inaugural Theeis To the examination of the Revend Frederick Parely, Process. The Justices, And Medical profesors of the University of On the first of November 123. in the Degree of Dector of Medicine By Charles Hoenry Hehr Philadelphia

In 14

To William Siken du. Q.

Propper of Surgery in the University of Pennsylva nia.

Dear stir

Bumpeted by inclination, and impresent by the highest respect for how profesional tal. into, I alaim as their project, the pricelage of didicating to you my Inaugural Diferitation Thus, independent of all other considerations, of am impelled to inscribe this essay to bear by grat. itua fu the many opportunities of improvement, and the universited attention which Now have so Hindly afferded in during the turn of my Medical studies under Your direction & lament that it is so unworthy your acceptance. Look en its faults as been have been accustomed to do or these of its author, and I shall have consola tien in uflecting . That New candown to excuse is no less eminene than New abilities to Judge

That how may long continue to enjoy health, and the himours awarded to How mosit, and that the happiness of Noursely and Family may centimu to increase is the unjeigned wish of You much obliged firma and grateful Charles H. Rohr The Reverence Philip of Muyer Q. Q. This Essay Is respectfully inscribed Is a grateful testimony of the Agration and Estion, Wish which his uniform oriendship And Politines Has inspired The Ausha.

Metanical arrangement.

The Sinus Cinchena belongs to Linnain form runsh Natural Order Gentretae.

In his secured system he places is in the blafe frentandia, and brees Menogynia. I've character which he gives of the presettion

tion are as pollows .

General Characters. Calyr. - Superior, one-leased, sive-toothea.

permanent.
buella Mayetaleus, tubular, tunnelchapea, duply pie-aleja, tale leng
chemely applar, eigment landeclate ei linea.

Stamens. Filaments five in the middle of the tabe, anthree stong ated, when thereto than the tiebe, so projecting buyond it.

Pistel. Gum inquier, top haped, obscure-

by angular, style the length of the stamens, stigma thiest, within bigin a contine.

Perioagrium Logente cercura with the labor.
tur-valora, tur vella, valora jusing at their inner sine turna in
at their enger, and expanding who
experse, ex at the her the approximan

Seeds Drumowns in each celt, olling, comprefere, bud was, attached to a contral olling receptacle.

Efectial Characters.

Calys . Sop shaped, five toothed .

Corolla. Tubular, jive cheje.

Plamens. Price, inserted into the middle of the

Capsule bling two valued, two welled, many

Natural History

que apprecarting more to the parner, and the smaller more to the latter figure, they are all under, termentose, and stand in pairs upon and dand upon Sender pedioles the caly is small, bell shaped, and out at the margin into five mixute segments: the essolla is funnet chapea, consisting of a long offinctional tube, divided at the limb into five segments, which are ovale, or obling spreading, on the upper side wages the filaments are bristly placed in the middle of the tube, and junished wish ohlong antherac, tivested in a spiral manner.

what longer than the stamina, and jurnished with a usuna stigma, the cansule divides into two rants, the cells of which are reparated by a parablet partition the seas are small and numerous It is a notice of pour, growing most abundently on a long chain of mountains, extending to the North and boush of Lova, where its went progret by arreas in bulk the body of a man. According to Mr. And, the wil in which these trees their and Especially on the bantle of small rivers de sulling the ball is from September to November the inly time is the whole you of some intermit sion from the rain in the mountains. abound, they just build hets ja the west men,

the back yana lo

and then a large hus, wherein they put the bast in order to preserve it from the wet, but they let it he there as short a time as perfeible having first seek a road from the place where The true grow, through the woods, sometimes three or four leagues, to the measure plantation a farm house, in the lew country, whither, if the sain permits them, they carry the bash sush with to dry. These preparations being made, they provide each Indian, they being the cutters, with a large 18 nife, and a bag that will hold about fifty pounds of green back: very two Indians lake one true, whence they out, or die down the bast as far as they can each from the ground; they then taske stieses about half a yard ling each, which they tie to the tree with strong with at proper distances, little the steps of a ladder, always slicing of the bast as far as they can reach, before they fix a

besarry to whi

new step, and thus mount to the top, the dadian below gathering what the other outs, this they do by luns, and go from tree to tree title the bag is full, which, when they have please, of true is generally a days work for one Indian. As much case as possible must be taken shar the basts is not out wel; should it so hap. pen, it is to be carried directly down to she how country to dry, for otherwise is losses its solous, turns black, and ests, and is is hie any time in the hue without being ofread, is runs the same vistor so that while the Indians are out ting, the mules, if the weather premits, ought to be carrying it down to the place appointed for anying it, which is done by spreading it in the fren air, and frequently turning is On the trees being intenty stript of their back they soon perish, and as the number of these trees to which acceps would be had, was said to be

not very considerable, is has been supposed that a suspicient quantity of basse to supply she demand could not long be procued bondanine, however asserts that the young trees do not die by leaving their back, but send out pech shorts from the base, and as these which are enjoyed to become old have time to deferminate v prop. agate, we trust, the year of exhausting this valwalle medicine is wholly unsounded. We sum to have no satisfactory account at what time, and by what means the medical Oficacy of the Benevian bast, which is now so well established was just discould. Time centena what it use is Intermittene Fewas unas uneven to the Americans long before the Spaniaras professed your, but that they conrealed this unewleage from the Europeans, and on the aintrary it is afsorted by others, thus the perurians never supposed is to be fit for

any medical use, but thought, that the large quantities exported theree, was for the purpose y aying, and they actually made some trial of its yets in this way bendamine says, that accome ding to an ancient hadition, the Americans one the discours of this remindy to the liens, which, some naturalists justina, one subject to a sund of Intermittine fiver, of which they were observed to be oured by instructively eating the board of the bein chena, But Resprey states that the wee of the barn some binehina seas being thrown by the winds into a perty water, lay there, till the water became so little that very Equent to drink it Themever one of the neighbouring inhabitants being ing no other water to genete his third, was faced to arins this, by which he was perfectly oured The afterwards ulated the circumstance to others,

Bulvis 70 me, beca

of fevers, to make use of the same reminy, is when has remidy was, hewever, little uneven, till about the year loss, when a signal cure having been per-James on the Janish Kieney's long, the Country de Cinchen, at Sima, it enous into general use, and hence was aisting wished by the appellation pulois Comitifear, also called butty behing china, a bhin china, Mina Mina, a Min Mina, and Duina quina a Quinquina. On the recovery of the bounty's, the aistributed a large quantity of the bast to the des. wits, in whose hands it acquired a still quater reputation, and by them was first introduced into Europe, and thense called pulcis Secucious, Jeulie patreum, and also Cardinal de Lugos pour an, because that charitable pretate beinghe a large Quis the jourteenth, when Daughir, was said to be one The first in Europe who experienced its officery

Hein

quantity as a quas copense for the religious poor as Rome.

This back is brought to us in pieces of different sizes. ume ulled up in short thick quiles, and others plat: The catride is becanish, and generally occurred in pare with a whitish mefor the innerpoise is of a gellowish, waish, a susty iron colour the best int breaths alove a smooth, and prever piable beween the test. The injerior Kinds appear when motten of a wordy testere, and in chewing, of sepanote into fibres. The firmer pulouises more easily than the latter, and looks, when predered, of a light brown what paler set his a elight mill, approaching as it were to mustiness, yet so much of the aismatra trina as not to be disagreable. Its taste is considerably better, artingent, and very durable in the mouth, and accompanied with some argue of aromatic warmth, get not sufficient to

like the

percent its being ungertigut. Buides this barts. that of reveal other spicers of Cinchena have been accommended for medical use by diguest an there, especially the botto ferrivianus Autes, also there of the binchena baribaca a Samaica base, that of the binehina desibunda pudueca as In Queic, and that of two a three other species produced as Santa Se! The first of these is in much larger and thicker pieces than the common most of them are erreace, though not Allen together like the quilled back. They break show, like the hest common back, and appear widents by composed of three layers, the outer is this, rugs ged, frequently overed with a mosey substance, and of a redish brown orlow. The middle is thick u, more compact, and of a darker here it is my bitter and resinous the innumest layer is more woody and filrous, and of a highter red. Lewis Moteria Medica, p. 415.

itungu tu utias

In prevaring this bast, the middle layer, which sums to contain the quaters proportion quesincus matter, does hat break or readily as the rest, a circumstance to be attended to less the must active part should be left out in sigting. The rea barn to the taste discovers all the puentian flavour of the common prunian Barre; but much stronger. An injusion in add water is intensely bitter, more so than the stringerse describing the officinal base to astringing is in an equal degree quater than that of the injusion of the common base, as is shown by The addition of the Sulphas Fori The quirtuous unetwe of the rea barre, is also prorationally stronger than that of the pale. The quantity of matthe estrated by wellpin opinis from the provider of the james, was to that of the latter, as there to too in one experiment, and as 229 to 130 in ano. ther, and yet, on infusing the two usideways of

ter, for o al prace was of a Ruis Vivi the first representate in history water, shar yether and base gase a biguest considerable history and which street a black with Sulphus views, while the yet and by the this was wearly took to, and

vid of sistinginey.

Despeting the measiful properties, we have event rejected to auch writers, showing, that as the we have projected with the warmon, to a much higher degree, we it has been men, to a much higher degree, we it has been more grown in more grown in more grown in which across and house it is thought to be those which across ing to show he dynamines as the bearmethe adverage, and was property the wind ariginal. If he wight to become, and which prevent as one-type in the property of lyamines of the wind to the first in the formary of the other for it appears from the testimony of the the way proceed any of a much despes as been than the account.

ung gue Timaley where is

The rea baste was first imagine by Saunders to be that y the full gener was, the beanches and young true girlaing the common basto, but this ofinion the Goden sums afterwards to have abandoned, fa in the third extrem of his pampehles on this sub. jest, he says that he had lately seem some weed. ragly good sed base, imported by a Francis mee short, a considerable portion of which was as small as the quilled batt in common use so it was ex seedingly resinous, and gave evident proofs of its being the quile of the larger sed bast which was in the same chest . - If the pale and red boot were the latter differing from the farmer only by acquiung quater materity, we should find the duponets of the colour of the pale base to occrespend propose timally with its shierrness, a she size of the quilt, which is outainly not the case . The binchona las what is described and figured by Sacquings

billing Taixi as

biolog and with notes, but the exercise is sucher, give out its taste more readily, and forme on ink with a colarly hind more readily, and for the the perhaps who is present our to the perhaps of the such interests of the such in the such is the such in the

standing with a shalybriate becomes dactor, while that of the according becomes more juine. When they are found to be in a state of fumentation & offete. Mila or caustis alkalie, is line, presepitate the extractive matter, which, in the case of the cause he alkali is disolard by the faither addition a fish injusion than from a fish descrition, and in the precipitate of this last, some mila earth is pureptible. The intuin is by age naneca to the same state with the just devetion, and then they apposit securly an equal quantity of mila earth and extraction matter, so that Line water, as well as chalybiates may be used as a test of the whative strength and paristrable one tun of the deferent preparations of the different Baille - execordingly, rold injusions are found

te, appe

injusions and descritions of the red bast than those by length of time to expaint more mila earth with the Lime water, and more extracted matter. Sime water, as precepitating the unactive matter, appears an equally improper and disagree able wentereum. Water has been found to suspena the usin by much left gum than has bux supposed. Rectified spirit of wine extracts a billimels, but no artingency, from a residence of to affusions of vola water, and water extraots astringency, but no bitterness, from the usiduum of as many agusions of restigied opicis. The residun of both are insipia: tum many ingenieus esperiments made on the Hours vian toast by Dr. Swing, published in a fifeestation which gained the prize medal, given by the Har-

Edinbergh New Dispensatory

seins Seciety of Estimbargh is gre, the petersony, affects mention upon the foreview Back is accuracy than hast is to fee backers, and is appeare, that with aspect to companion people, the companion people, the companion people, the following fluins are is the come in which come as placed.

Subsection spirit of thick bounter by french Mandy - Whenith Mine - traigan delution -

Culiquia quiet q vitu. - Milt blatete altertir -Rechina quiet quine: - Mila regetable altertir Sime water: -

The artis expites privery transpar and base using, an asuble their seem totten expanately charge me barties are first appureame was and read for some time afterward, was expected by some eminent playsicions to be a assignment among, yet these prefusions on estively were among, and its advanced in seven underscriby get alliched to that the misputer which new subside are

This mes

confined to the mode of quation, and the manne in which it is most accountageously au-

I am now to open particularly go too reconperfection from the bischem, where present in the one of bottomillow from how here greatly will let, the first be whole I allow was when in the steps of all bischems.

the method employed by a manufacturing showing of the holy patte preparation execute in inferior a contest in inferior a contest in a contest of the holy party of the holy party human and in a question of the liquid these obtained, and way anothing to enjoyed, which leaves a contestion of the merican has been estimated in question the merican has been estimated in question the property of the polyperions of the polyperion, and a name a to the attention parties of a gentleman of the profession of a gentleman of the profession of the profession of a gentleman of the profession of the

4 person

of my argunistance in the Mithem Sheeties, it almost supercurrent the relatition of the Barts in sustained in the latest the great to the surface in it was supergreated in the surface of the proper properties in an adult straining by question that the late by as means assuring the apprehension of the latest surface thin to their be also as a surface to the think the latest surface to the think the latest surface to the think the latest surface to the latest

In the arriver of the summer of next the general contentions which had been froming it, about to a considerable degree in the estimation of how pastitiones where opinions of home had an oppositioning of manufactured bear and had considered present experience with the memorial but shall define when the endfort of home about the subject of home had been able to tellect from the procedure of them.

Gester Junge Whiter, of the Mother Liberties, has obligingly communicated to me the result of his experience with the article, after a fair and inpartial trial, which he has pelitely permitted me to transcriber - I have imployed the Val bin chinae in a great number of eases, with its qualica in a quas number of instances & have had great waren to be pleased , but particular. by it where the bast in substance, a more bully preparations could not be tetained on the etomach from the irritability of thus organ. Where this state of things wisten, I have found it to umain, when all other preparations were rejected by comitting. the spinier of Luter Alexander Vinight, pert place vian of this vity, concur wastly with the preceding Mayane a misture of Sal Cinchena Tiji Esti: but Fluis 3. and gy. Penter zoj. in one particular instance, to a chila three years da ._

tu, wil Humach

The following communication from my friend Goeter Inc. Whiter in answer to a desire I capus na of having an abstract of his inpunione wish the Sal birchinae . - Becording to your require I give you this trief statement of my especience with the Sal Cinchenac I was outline to see M. - 8 , who at the time of my visiting her was tubouring under Remittans Feel, & promise in an emilie se. and during the apyrivia attempts ed to give an infusion of the Baist, Suspenta in, and brange peet, which I generally found to it well on the Stemach, but in this instance is was tetally unable to bear the smallest quantity of the medicine. The same difficulty occurred in the administration of some other preparations. The own eventually took or a typhoid chaine. ter, with a total prostration of stringer, the itemach still rejecting every thing, and resisting may article usually imployed in such eases

to quier is initability. In the wilmum. I commine in the we of the tol birchina, the medical birchina, the menical medical property and in patient granuly money. The grow of and in this case now as petting.

M. Sal Cinchenae 31; Mucil: S. Arabie: 3;

Egua Menth Jajon 30 Mk.
By which a lable speca full was given very
were after but for the little experience of have
men often but from the little experience of have
been with it; it appreses to be putto well adoption to save of the above character, though, to be
of second it much be given in large doces,
and making to quant to much deviced time of
the Matthew siminar, another late preparation
the Matthewine maket, later is the prevening in
them the Junious Marth, then is the prevening in
them the Junious for of Junious in the prevening in
them the Junious for of Junious whenthey the one

personally testing this medicine. prices, however, to transcreting my our diary, a giving the experience of others, I will subjoin the formula for the preparation of the medicine employed by the same ohemist who Junished me that for the farmation of the Val Cinchenac. It is as follows: Digest for 24 hours, a quantity of Beneviar Barte, with four times its weight of water, previously mixed with a sufficiency of Julphune Acia to exturate the satisfiable have of the baste. Main off the liquer, and alla Cartenas Caleis to neutralize the acia. Sasher the purifitate, wash, dry by a moderate heat, & pulverise it: put the privace into a obose offer ul with six times its weight of alcohol; hasing agitaton it well, by heat quadrally applied, saise it to a boiling temperature.

The me one was This expectua, rememe is from the più, engre se seed and the presizione to gall seems office and setting the seems, bear must come and estimate with outforming acid, bear must and chipsant of Justine in affectua, white, and of an estimate and premaming better tacte, and without care.

It is used in pill and eduction the better mode of auministration is particularly entire to shilacion, where signed to in give represented in getting shim to enable pully and observations the automatage of admitting the account to be graduated with more accounting the said the age, habit to.

The medium projections for adulto is one, to one and a half grain very hour.

O. l. M ... , is friatting of the active course of active in a quat number of sound have been dighty gentless with the quanting

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the eeming, was sannt spense of it in higher terms than by easying, considering the great power is prepared to the great power is prepared to the second terms of the estimate of the most of the estimate of the most of the estimate it. I have also be restrained to the second of the power of

If the Sulphan of Quenine of one speak from more estimative superione, but having been we as more superioned of all probabance of our last speakernie. I also make any minutes of acces, but saw give you a few from more minutes of acces, but saw allow to see their it. I would not be absoluted to the second of t

above ou

chate which I have always from an westleat constination. The continue is the westof this preceipting for upward of the westruning which time the war taken is below, without any temperal effect the green were, and of warmer to place of the preceding the bulgstate of Livine to door of me grain were found awing the approxim. The tech to pill, o was even, having how but the took to pill, o was even, having how but the with after the commencement of his me. How the most offer, the engine a stages in analysis on prepare the engine a stages in analysis on graphing and for the I warme, and the how mit another parengent.

t while go on to give you never without number, but we not sentimen it surfaces to twelver your pagies with a formal his long want the grands with a many never hing another the grands while the many never there was not a superior of the present of the formal point for which I william and writing who the time.

ottena

Myra the whole I arem is the most inspiritual and valuable remisery employed in Sommitted from and of your thind highly from a said world required with its

I have warnetend the view of secural other partitioner, who agree with shore of I have in conveniential, but to Seasonets them more in writest wenter weeks my proper to a six has you than in writest.

on the following patient, in whem I had an appretunity of personally testing the meaning of the form, in y the physicians of the form. In physicians of the form, in the physicians of the form of the physicians of the form of the form of the town of the take the had between a meaning he with a marked the town of the town of the symptoms being such as usually others the subsection of the state of the town of the symptoms being such as usually others the subsection of

Bun the the medical

of them unimportant. Finding it indicated of prescribed a carpartic of balomet & Rhubars. I adved her the Sulphas Quininas in acres of half a grain wery hour during the apyresia. 25th Un civiling her to any of journa what she is anibation had received at its usual hour, the disease having unwegone no change since the pre-26 is. My patiers experienced no paroxyem since Though I willed my patient daily on the 27th 2rth. egit and soth yet the attack was not uneven. betober with. The has not had a ordered of her complaint since I last saw her. Sum the expression to which persons in his condition are subjected, I thrught is predent to continue the medicine until the 1.1h, recommending is to beginn at lengue inturals, say half a quain we by hour and a half on the 27th weighter hours

betober. Inthem is the zich, very their house or the zich, es a weak to any I sichangue has per puthe trasmon some to the same foundly with the presenting ear and the same their their children battering were the same secure, where treatment was one concluse to their little.

25th. They had an acception of the peacongen as the unal hour.

rails in get a chitaria ingre a commat of the nauchatin to any the chief has informers acception, but in melan jum.

27th. Fore of them had a return of the fever.

sich zgih soth be there there days they request race of their simplant of a remed of their simplant below hit they continue fre from the diener.

Furthern of alice directed that the measure, as in the case of their witas thenthe and be given up before the orthog between

Dicharges from purher heatment, oured

The zzel October 4

Systember 25th Mes. M. _ , aged about so this was as in the fumer instances a case of Satermilland of the Quelidian from which had wisted for swalls The had been under medical teatment there days precious to this date, one had taken the Sufficie of Enimine the dose presoribed for her was me grain some hour. The stated to me that she was much improved since using the medicine, and that the narryems new occurred tater their they had before taking the fills bucommonder them 26th. she informed me that she had suffered no attack since yesterday. The egel 28th 29th & soil brought with them no we tun of liver. Outster 4th I called again to see her, and underdoct that the had felt no interruption in his curterracy compley onexis from a return of her som plaint since last I saw her.

out The their con bucherd

The medisine was continued to this dute gradually September 25th. The two abilaren of Mes. 1. same time with their mother, the youngest of whom, a boy of a years of age, had not unother parorysm after one day's employment of the medicine? the other, a girl of 11 years still laboured waser each the boy remained free from from his nite had her accustomed pareryon. egel. Neither of them experience its extern. with The girl complained of a chique while and fever to- day. 29th they suy und no exacerbation. soth They continued exempted from a situes of Coloberash by inquiring of Aus. th. to-day, the said that the children had retained their

zich des aut che ul apres ask The de dans holler .

health since my last visit. The saution to prevent a relapse having been ob-September 25 th. Mrs. le _ una ten children. Surtician form, which had subsisted two weeks previous to their having made application for menical advice. I directed the Sulphate of Quinine in housely doses of one grain fu the mother, and proportionate ones for the children which I could perecine but little variation in my eigh Mess. E. stated that her lass paroxyom was left distressing than any furner one. The ofdest ohila had somewhat improved, and the young est experienced no exacerbation 28th The disorder continued to deline in Men & the dasse remained much the same as yesterday, the other suffered no unewed attack.

the zych. trac food aboting, the 28th yems. Vetober de tase sines right They all recoped an maintain. On the north they still remained competed from the decining.

Cetcher with I paid a visit to this family, and journed that none of them had retopied since the test. _

Systember 26th. Mire to _ a person of young age, recoining in the family of the to _ emplored of great plan is the head back & look, authorized and accordingly. Billing my patient on the 29th the injumen one that soon after my defection yet injument on the processing I stream that feel had one to bommer that after its abouting the took in Lucator feels, and water and their use through the day.

The 28th 29th & sold brought no esteren of the parcy -

Cotober sich it is relapse having a curren in this case since my last visit of dicharge his cure.

System on right of waller to our dies Eliza C., with a firm a laborating unaw remitted to dera, with names, price to be learned to regardly that this had have enjoined to a new or regardly that this had been enjoined to a new of regular agreement that the that to the name that for had agreement to inter what to are found it to premiers an emitte, and austral the full premiers of the first or of the first of the first

. Rad Specac: geroj.

Dies in chart : the of _ one power to be to -

seth. Vering my patiene. The statem to me that after the operation of the emotion she jeth relieve of the sixtness of stemast o pains, with a citizening application the remission was also uter 8 Il may " subj.

unitiesably begin than after the forma newcomme and suffice left from the victime of the from Beteber 1st. No soverbatter occurred einen my best vicit.

with of found my patient fast reconsing her stronget,

Discharged from juster treatment.

The program were are a per of which I tope min were I could have nawater some of the our they offer one the perassing offer one fittle variation from the perenting, I have not received them.

It may not to a mip to date that there were not exhibite cases, but consigned to me as their recommendation were presented.

of subject of vital in purtance to provide trans as their occurs, and the love of those under their race are preparatived by it services notice, it is, that the high price as which this medicine is the many and a new other the adultion

Thoting Mejo 4 The mos semina,

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tien of it. In two instances of which I have tuen apprecien by a gentleman of the frently, which came under his own sognitioned, the next secure under his medical altered never secure promise as the his attending account of the weith the atticle. In letting ever the last number of the viewnal of the united secures, I was the following emails, when I have to inclose at the petitioning emails, when I have the inclose at the conficult and inclose at the conficulty.

Might belletin & basantin hum long here exvision that a great number of segetable substanne, people of string freeze over the animal evenray, one a sheer accept to a califield have as the meythin in cream, she stage have a may termine, the contribution in helder in They thereture tages to experiment on beschause, with the view of airer owing a earligable have stage, the view of airer owing a earligable have stage, Will 1

tullizing principle of Family Lisbon, was a substance of this mind united with an oily matter They combined this substance with diguent acids, ascertaining the fam, proportions and projecties of its salts, which all had a bitter, sub-acomutie flavour, proper to the pale back, which was only used by Garnel. The binehonine itself has this preulier taste, but much left marked, ow ing to its high degree of rotalitity powering the examination of the pale base, Muse". P. & C. actumined also the nature of the other compo nent substances, which, joined to the binotonine are as follows: 4 binchenine united to Hinie asia: _ 2, a green oily matter. _ 3, binehonie red. a Red soluble orlowing matter stanning of Bellowing matter: - 6, Minate of lime: - 7 Sum - 8, Starak. If we enter into a consideration of these substances,

we shade su the quater number, vir the binahonic

kittu taxt The alecho totais is Bour thing Brisigle moth it

ter und the starch owned profeels any of the medical virtues of the basse, of which they have not the taste: the greater number of inem are were insoluble. The soluble colouring matter or the tan nin aunnot wither he regarded as the active substance in the binohona, for if the latter owned its vistues to any tannin matter, other backs, very sich in this principle ought also to have the properties of the sinchona in proportionate energy according to sentiary to merical experience. There remains the Hinate of Lime, but this salt when pure has no bitter taste, and is besides insoluble in alcohol. The absolutio tinetures of ball, there one, as not centain is, and they are nevertheles febrigage. bory thing induces us to believe that the nation principle of the back is the binchonine; sensequally it is to this substance & to it sall, that

sna iti . Theanadys back is 17 Buch in Ryvatra made, and the attention of the playerina and his therepretions receive her enghed to be districted philips of the english of the property of Might Hellities and bracketers, in analyzing the getter back, otherina a relationer necessary the zables and dispering from bischemic is physical and electrical properties to one a religible bace, to any electric of neith being disperse your bischemics, and its soll much better. This derbetoner has been demonstrated being

The analysis of sea bast presentil as estacrolously load. The simulationess presence y biachemias the thinks, and retained in a gester quantity thoughten bast if he real bast is the real bast is the bast.

Proof employed by der. Polletier for precuing

Repeater absorbed instruct of the back are first made, and by imposition, the absorbed interest is obtained that the bine union

and lear the colon thealer Justy ! maller_

a the Mining is found, which with in the formevian back it obtain the altaline substance of a suitable justy, the extrast is boiled in a contain quantity of water, to which has been added a few drops of hydroathlorio acid: The lique after cooling is filtered, then concentrated, and treated with an except of magnesia - boiling it for a few minute, the lique is again superational, and again filtred . The precipitate received on the fille is compessed of Kinine, calcined magnesia. tunnin and bine honie red. Wash the precipitate in sola water, dry it in a sund bath, and treat is with willing alcohol, which difsolves the alkali, und leaves the magnesia and tannin united to the colouring mater. It remains less to evaporate the alcohol, and obtain the Hinine of a superior purity. The alreali of the Cinchena thus progrand is sometimes impute from an admixture of oily matter to separate which, and purify is, we

williamin In other Viain / Vetru.

must aifele is a new in an acia largely diluture with water, and trace is go the last time with magnetic and abeched as before mosterined. In the same wester our mate who is presented as a series are made, may be pused another mede of presenting the active as circular by the Badeline in the an in like and we to the same who

The duly hate of stains has now been compleyed by a gent are when y beened, play inims in fearer of tiges, with executionable uniformity of executionable that according to yearing maniform and execution the sale in decay of this yearing maniform and execution, which have been engineered to consume the fearest a example, here we are not a second to consume the fearest a example.

on other expressions made at the Hospital se to bone.
We fire grains have been given saily in simple guntains forces, and entitudes for tragestions has any fire and the eventuating the proceepens was pur-

wan, the asch is so (se aprece Judge ma a bour is mere gets in acres w pregrass Queal,

Godon Bally has reported nine cases of grow to the Royal academy of Measuine, oured radically by the Sulphate of Quinine. It appeared to the Bally that ten quains given in five asses awing the asyresia, were sufficient to which as once the fever. In autumal intumittents, however, he conseives that larger dove will be needs any two great and obviews rowantages of the sale of bast over the pow du ace, the smallness of the dese, wherety the stemuch is saved from nausea and oppression, and the freedom from astringency, it bring rather induce gar aprecial than of an astringene nature The dose may be carried to exaso grains in the 24 hours, which would be equal to about these curees of the power. In punicious fevers, when is is assirable, during a short remission, to istraver a large quantity of the Cinchona, whis new preparation will be of incoloulable value! M. Tuval, second naval physician as Brest, has loy aux van shal in Tru Manie me who

had from a digerent types, cured by the Sulperate of Kinine, The medicine was prepared by Meete lasse and betemb, of Bust, who employed a new prosels. which consisted in briling the gellow back is water the alkaline principle by ammonia M. Renaul. din Mu Hulle', and Mr. Robigues have also que nished socious notices of this interesting discours." That the sulphus Quininae is a valuable uming. a perusal of the authorities of have given, and the about enumerated cases will be sufficient to sive. Sine is is that several practitioner have time which the bast is Il nown to give rise to



